

K-5 Curriculum Guide

	Kindergarten	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade
English Language Arts	Reading: <ul style="list-style-type: none"> <input type="checkbox"/> Name and use uppercase and lowercase letters; match letters with their sounds and print them. <input type="checkbox"/> Retell familiar stories. <input type="checkbox"/> Ask and answer questions about details in a text, including unknown words. <input type="checkbox"/> Identify the characters, setting and major events in stories. <input type="checkbox"/> Make connections within a text. <input type="checkbox"/> Compare and contrast the experiences of characters in stories. <input type="checkbox"/> Identify the front cover, back cover, and title page of a book. <input type="checkbox"/> Name the author and illustrator and describe the role of each in telling the story or presenting the information in a text. Writing: <ul style="list-style-type: none"> <input type="checkbox"/> Use a combination of drawing, dictating and writing to share information, opinions, and stories. <input type="checkbox"/> Participate in shared research and writing projects with the class. <input type="checkbox"/> Use grade-appropriate grammar and spelling, 	Reading: <ul style="list-style-type: none"> <input type="checkbox"/> Use grade level phonics and word analysis skills to figure out unknown words. <input type="checkbox"/> Retell important details from fiction and nonfiction text. <input type="checkbox"/> Use details and illustrations from a story, poem or play to describe the characters, settings and major events. <input type="checkbox"/> Compare and contrast the experiences of characters in stories. <input type="checkbox"/> Find similarities and differences between two or more texts on the same topic. <input type="checkbox"/> Make connections within a text. <input type="checkbox"/> Use various strategies to determine the meaning of unknown words and phrases in a text. <input type="checkbox"/> Explain the difference between books that tell stories and books that give information. Writing: <ul style="list-style-type: none"> <input type="checkbox"/> Write opinion, informational, and narrative pieces. <input type="checkbox"/> Use a variety of digital tools to produce and publish their writing. 	Reading: <ul style="list-style-type: none"> <input type="checkbox"/> Use grade level phonics and word analysis skills to decode unknown words when reading. <input type="checkbox"/> Recount fables and folktales and determine the central message, lesson or moral. <input type="checkbox"/> Identify the main topic of an informational text. <input type="checkbox"/> Pay close attention to details, including illustrations and graphics, in stories and books to answer who, what, where, when, why, and how questions. <input type="checkbox"/> Use text features (e.g., captions, bold print, indexes) to locate key facts or information efficiently. <input type="checkbox"/> Compare and contrast two or more versions of the same story. <input type="checkbox"/> Read different texts on the same topic and compare the most important points. <input type="checkbox"/> Use different strategies to determine the meaning of words and phrases in a text. <input type="checkbox"/> Make connections within a text. 	Reading: <ul style="list-style-type: none"> <input type="checkbox"/> Use grade level phonics and word analysis skills to decode multi-syllable words. <input type="checkbox"/> Recount fables, folktales, and myths and determine the central message, lesson or moral using details from the text. <input type="checkbox"/> Find the main idea of a text and identify the supporting details. <input type="checkbox"/> Describe characters from a story (traits, motivations and feelings). <input type="checkbox"/> Explain how illustrations from a text can contribute to the mood or provide additional information about a topic. <input type="checkbox"/> Compare and contrast the themes, settings and plots of stories. <input type="checkbox"/> Distinguish the meaning of literal and nonliteral words and phrases in a text. <input type="checkbox"/> Make connections between sentences and paragraphs. <input type="checkbox"/> Compare details about the same topic in two different texts. 	Reading: <ul style="list-style-type: none"> <input type="checkbox"/> Describe the basic elements of stories—such as characters, events, and settings by drawing on specific details in the text. <input type="checkbox"/> Pay close attention to key features of informational books, websites, articles and videos. These include understanding the main and supporting ideas; being able to compare and contrast information; and explaining how the author uses facts, details, and evidence to support particular points. <input type="checkbox"/> Compare ideas, characters, events, and settings in stories and myths from different cultures. <input type="checkbox"/> Use roots and affixes to read multisyllabic words. <input type="checkbox"/> Explain what a text says using details from the text and what can be implied from the details. <input type="checkbox"/> Determine the meaning of words and phrases (including similes and metaphors) as they are used in a text. <input type="checkbox"/> Describe how a text is structured (cause/effect, 	Reading: <ul style="list-style-type: none"> <input type="checkbox"/> Summarize the key details of stories, dramas, poems, and nonfiction materials, including their themes or main ideas. <input type="checkbox"/> Identify and judge evidence that supports particular ideas in an author's argument. <input type="checkbox"/> Use details from the text to compare and contrast two or more characters, settings, or events. <input type="checkbox"/> Integrate information from several print and digital sources to answer questions and solve problems. <input type="checkbox"/> Quote accurately from a text when explaining what a text says and when implying what the text says. <input type="checkbox"/> Compare and contrast the structure of two or more texts (cause/effect, comparison, sequential, etc.). <input type="checkbox"/> Determine the meaning of words and phrases (including similes and metaphors) as they are used in a text. <input type="checkbox"/> Use roots and affixes to read multisyllabic words.

	<p>including capitals (I and the first word in a sentence) and writing letters for sounds.</p> <p>Speaking/Listening:</p> <ul style="list-style-type: none"> □ Take part in conversations about topics and texts following rules for discussions (listening, taking turns), and asking questions to seek help or to get information. □ Speak clearly when expressing thoughts, feelings, and ideas. 	<ul style="list-style-type: none"> □ Participate in shared research and writing projects with the class. □ Use grade-appropriate grammar and spelling, including capitals and end punctuation. <p>Speaking/Listening:</p> <ul style="list-style-type: none"> □ Take part in conversations about topics and texts being studied by responding to the comments of others and asking questions to clear up any confusion. □ Use complete sentences when expressing ideas and feelings. 	<p>Writing:</p> <ul style="list-style-type: none"> □ Write opinion, informational, and narrative pieces. □ Use a variety of digital tools to produce and publish their writing. □ Participate in shared research and writing projects. □ Use grade-appropriate grammar and spelling, including capitals, commas, apostrophes, and end punctuation. □ Begin cursive letter writing instruction in the third quarter. <p>Speaking/Listening:</p> <ul style="list-style-type: none"> □ Take part in discussions on different topics or texts by building on others' comments and asking questions in order to clarify comprehension, gather additional information, or deepen understanding about the topic or issue. □ Produce, expand and rearrange sentences depending on the task or situation. 	<p>Writing:</p> <ul style="list-style-type: none"> □ Write opinion, informational, and narrative pieces for different purposes and audiences. □ Use technology to produce and publish writing. □ Conduct short research projects independently. □ Use grade-appropriate grammar and spelling, including capitals, commas, and quotation marks. □ Create readable documents with legible handwriting (manuscript and cursive). <p>Speaking/Listening:</p> <ul style="list-style-type: none"> □ Take part in discussions about topics and texts by preparing ahead of time, building on others' ideas, asking questions, and expressing their own ideas. □ Report orally on a topic or text by using facts and details and speaking clearly at an understandable pace. 	<p>comparison, sequential, etc.)</p> <p>Writing:</p> <ul style="list-style-type: none"> □ Write opinion, informational, and narrative pieces for different purposes and audiences. □ Use technology (including the internet) to produce and publish writing. □ Conduct short research projects independently. □ Use grade-appropriate grammar and spelling including capitals, commas, and quotation marks. □ Create readable documents through legible handwriting (cursive) and/or word processing. <p>Speaking/Listening:</p> <ul style="list-style-type: none"> □ Paraphrase and respond to information presented in discussions such as comparing and contrasting ideas and analyzing evidence that speakers use to support particular points. □ Report orally on a topic, text, or story in an organized manner and with appropriate facts and details. 	<p>Writing:</p> <ul style="list-style-type: none"> □ Write opinion, informational, and narrative pieces for different purposes and audiences. □ Use technology (including the internet) to produce and publish writing. □ Conduct short research projects independently. □ Use grade-appropriate grammar and spelling including capitals, commas, and quotation marks. □ Create readable documents through legible handwriting (cursive) and word processing. <p>Speaking/Listening:</p> <ul style="list-style-type: none"> □ Come to classroom discussions prepared to engage fully and thoughtfully with others (e.g., contribute accurate, relevant information; elaborate on the remarks of others; synthesize ideas). □ Report orally on a topic or present an opinion in his/her own words, that follows a logical sequence of ideas, uses sufficient facts and details, and expresses ideas.
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	Kindergarten	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade
Mathematics	<ul style="list-style-type: none"> <input type="checkbox"/> Count to 100 by ones and tens (e.g., 1, 2, 3, 4... or 10, 20, 30, 40...). <input type="checkbox"/> Count objects to tell how many there are. <input type="checkbox"/> Write numbers from 0 to 20. <input type="checkbox"/> Compare two groups of objects or two written numbers to tell which is greater. <input type="checkbox"/> Understand addition as putting together and adding to and subtraction as taking apart and taking from. <input type="checkbox"/> Solve addition and subtraction word problems. <input type="checkbox"/> Add and subtract within 10. <input type="checkbox"/> Describe and compare objects with measurable attributes (e.g., taller, shorter, heavier, lighter). <input type="checkbox"/> Classify objects and count the number of objects in each category. <input type="checkbox"/> Name and describe two-dimensional and three-dimensional shapes (squares, circles, triangles, rectangles, hexagons, cubes, cones, cylinders, and spheres). <input type="checkbox"/> Model, build, and draw shapes. 	<ul style="list-style-type: none"> <input type="checkbox"/> Represent and solve addition and subtraction word problems. <input type="checkbox"/> Read, write, and model numbers through 120. <input type="checkbox"/> Add and subtract within 20. <input type="checkbox"/> Understand what the digits mean in two-digit numbers and represent numbers using tens and ones (place value). <input type="checkbox"/> Compare numbers to determine which one is larger or smaller. <input type="checkbox"/> Use understanding of place value to add and subtract (e.g., $38 + 5$, $29 + 20$, $80 - 50$, $64 + 10$). <input type="checkbox"/> Measure and compare lengths of objects. <input type="checkbox"/> Tell time to the hour and half-hour. <input type="checkbox"/> Read, understand, and make graphs. <input type="checkbox"/> Describe, compare, and model by building or drawing two-dimensional and three-dimensional shapes. <input type="checkbox"/> Make new shapes by joining shapes together. <input type="checkbox"/> Divide circles and rectangles into halves or fourths. 	<ul style="list-style-type: none"> <input type="checkbox"/> Solve addition and subtraction word problems with one or two steps. <input type="checkbox"/> Quickly and accurately add and subtract within 20. Know all sums of two one-digit numbers from memory. <input type="checkbox"/> Determine if a number is odd or even. <input type="checkbox"/> Understand that the three digits of a three-digit number represent amounts of hundreds, tens, and ones (place value). <input type="checkbox"/> Read, write, and compare numbers to 1000. <input type="checkbox"/> Count within 1000. Skip-count by fives, tens, and hundreds. <input type="checkbox"/> Use place value understanding to add and subtract three-digit numbers. <input type="checkbox"/> Estimate and measure length in standard units (inches, feet, centimeters, and meters). <input type="checkbox"/> Tell and write time to the nearest five minutes. <input type="checkbox"/> Solve word problems involving lengths and money. <input type="checkbox"/> Represent and interpret 	<ul style="list-style-type: none"> <input type="checkbox"/> Represent and solve problems involving multiplication and division. <input type="checkbox"/> Multiply and divide within 100. Know multiplication and division facts up to 10×10 from memory. <input type="checkbox"/> Multiply one-digit numbers by multiples of ten (ex. 9×80). <input type="checkbox"/> Solve word problems using addition, subtraction, multiplication, and division. <input type="checkbox"/> Add and subtract within 1000 using a variety of strategies. <input type="checkbox"/> Round numbers to the nearest 10 or 100. <input type="checkbox"/> Develop understanding of fractions as numbers (represent, compare, and find equivalent fractions). <input type="checkbox"/> Represent fractions on a number line. <input type="checkbox"/> Measure and estimate weights and liquid volumes. <input type="checkbox"/> Tell time to the nearest minute and solve problems with intervals of time. <input type="checkbox"/> Represent and interpret data on picture graphs, bar graphs, and line plots. <input type="checkbox"/> Find the area and 	<ul style="list-style-type: none"> <input type="checkbox"/> Use addition, subtraction, multiplication, and division to solve multistep word problems. <input type="checkbox"/> Read, write, compare, and round multi-digit numbers to one-million. <input type="checkbox"/> Fluently add and subtract numbers up to one-million. <input type="checkbox"/> Maintain the memorization of multiplication and division facts. <input type="checkbox"/> Multiply and divide multi-digit numbers using a variety of strategies (e.g., 23×4, $1,638 \times 7$, 24×17, $128 \div 3$, $6,966 \div 6$). <input type="checkbox"/> Generate and analyze patterns. <input type="checkbox"/> Recognize and generate equivalent fractions. <input type="checkbox"/> Compare the size of fractions. <input type="checkbox"/> Add, subtract, and multiply fractions and solve word problems involving fractions. <input type="checkbox"/> Represent and compare decimal numbers. <input type="checkbox"/> Solve word problems involving measurements (length, weight, capacity, time, money, area, and perimeter). <input type="checkbox"/> Measure angles and find unknown angles in a 	<ul style="list-style-type: none"> <input type="checkbox"/> Write and interpret equations. <input type="checkbox"/> Analyze numerical patterns and relationships. <input type="checkbox"/> Read, write, compare, and round decimals to the thousandths place. <input type="checkbox"/> Maintain the memorization of multiplication and division facts. <input type="checkbox"/> Add, subtract, multiply, and divide multi-digit whole numbers and decimals. <input type="checkbox"/> Add, subtract, multiply, and divide fractions and solve related word problems. <input type="checkbox"/> Convert measurement units and use these conversions to solve multi-step, real world problems. <input type="checkbox"/> Understand the concept of volume and solve mathematical problems involving volume. <input type="checkbox"/> Graph points on the coordinate plane. <input type="checkbox"/> Classify two-dimensional figures into categories based on their properties.

	<input type="checkbox"/> Compose simple shapes to form larger shapes.		<p>data on picture graphs, bar graphs, and line plots.</p> <input type="checkbox"/> Build, draw, and identify two-dimensional and three-dimensional shapes.	<p>perimeter of shapes.</p> <input type="checkbox"/> Classify quadrilaterals based on shared characteristics.	<p>diagram.</p> <input type="checkbox"/> Recognize, draw, and classify lines, angles, and two-dimensional shapes.	<input type="checkbox"/> Identify and draw lines of symmetry.
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Science	<ul style="list-style-type: none"><input type="checkbox"/> Describe the position and motion of objects.<input type="checkbox"/> Classify and compare objects based on their physical properties and how they are used.<input type="checkbox"/> Observe and compare daily and seasonal weather patterns.<input type="checkbox"/> Compare characteristics of animals that make them alike and different from other animals and nonliving things (structure, growth, changes, movement, and basic needs).	<ul style="list-style-type: none"><input type="checkbox"/> Explain what happens to an object when it is pushed or pulled. Predict the effect of a force on the motion of an object.<input type="checkbox"/> Recognize the different features of the day and night sky. Recognize patterns in the moon's appearance from day to day.<input type="checkbox"/> Compare the physical properties of rocks, minerals, soil, and water and describe the different ways they are useful.<input type="checkbox"/> Explain the basic needs of plants and animals. Describe how humans can protect and improve the environment.<input type="checkbox"/> Summarize the basic needs of plants and animals for energy and growth.	<ul style="list-style-type: none"><input type="checkbox"/> Illustrate and summarize how sound is produced.<input type="checkbox"/> Understand the properties of solids and liquids and the changes they undergo when heated or cooled.<input type="checkbox"/> Use tools to observe and compare the daily and seasonal patterns of weather.<input type="checkbox"/> Summarize and compare animal life cycles.<input type="checkbox"/> Compare the similarities and differences of organisms to their parents based on observable characteristics.	<ul style="list-style-type: none"><input type="checkbox"/> Understand motion and factors that affect motion. Compare changes in speed and explain the effects of gravity.<input type="checkbox"/> Compare the properties of solids, liquids, and gases. Summarize the properties of matter before and after they undergo a change.<input type="checkbox"/> Recognize how energy can be transferred from one object to another.<input type="checkbox"/> Compare the land and water features of Earth.<input type="checkbox"/> Recognize the major components of the solar system and observe patterns of the sun and stars.<input type="checkbox"/> Explain and compare the different functions of the skeletal and muscle systems of the human body.<input type="checkbox"/> Summarize how plants survive in their environments (function of plant structures, environmental conditions, and life cycle of seed plants). Explain the properties of soil and how it supports the growth and survival of many plants.	<ul style="list-style-type: none"><input type="checkbox"/> Explain how forces affect the motion of an object and how magnets, iron, and electrically charged objects may interact.<input type="checkbox"/> Classify, describe, and compare the physical properties of rocks and minerals.<input type="checkbox"/> Recognize basic forms of energy (light, sound, heat, electrical, and magnetic). Explain how light travels.<input type="checkbox"/> Explain the causes of day and night and phases of the moon.<input type="checkbox"/> Compare fossils and explain the processes that change the surface of the Earth.<input type="checkbox"/> Explain the effects of environmental changes, adaptations and behaviors that enable animals to survive in changing habitats.<input type="checkbox"/> Classify substances as food or non-food and explain the benefits of vitamins, minerals, and exercise to the human body.	<ul style="list-style-type: none"><input type="checkbox"/> Explain how gravity, friction, and change in mass affect the motion of objects.<input type="checkbox"/> Compare the properties and weight of an object before and after an interaction occurs.<input type="checkbox"/> Explain how the sun's energy affects the water cycle.<input type="checkbox"/> Explain the effects of the transfer of heat (conduction, convection, or radiation) that occurs between objects and how heating and cooling can change the properties of some materials.<input type="checkbox"/> Compare daily and seasonal weather conditions and patterns. Collect weather data and make predictions about upcoming weather events based on data and knowledge of global weather patterns.<input type="checkbox"/> Compare the functions of the major systems of the human body (digestive, respiratory, circulatory, muscular, skeletal, and cardiovascular).<input type="checkbox"/> Understand the interdependence of plants and animals with their ecosystem. Compare common ecosystems, classify organisms as consumers, producers, or decomposers, and explain the relationship of plants and animals to their ecosystem.<input type="checkbox"/> List characteristics of organisms that may be inherited or non-inherited from their parents.

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Social Studies	<ul style="list-style-type: none"> <input type="checkbox"/> Explain how people and seasons change over time. <input type="checkbox"/> Explain why events and people are celebrated through national holidays. <input type="checkbox"/> Use geographic terms to describe surroundings. <input type="checkbox"/> Explain how people adapt to the weather conditions. <input type="checkbox"/> Explain how people use the environment to meet their basic needs. <input type="checkbox"/> Understand basic economic concepts, including how jobs help people meet their wants and needs. <input type="checkbox"/> Understand the roles of a citizen. <input type="checkbox"/> Understand how people are the same and different. <input type="checkbox"/> Compare different family traditions. 	<ul style="list-style-type: none"> <input type="checkbox"/> Understand how people and events change a neighborhood or community over time. <input type="checkbox"/> Explain how people use natural resources. <input type="checkbox"/> Explain how people can change the environment. <input type="checkbox"/> Use geographic tools, terms and maps to identify places, landforms and bodies of water. <input type="checkbox"/> Explain how people use and earn money for goods and services. <input type="checkbox"/> Explain how supply and demand affects the choices a family makes. <input type="checkbox"/> Understand the importance of rules in the home, school and community. <input type="checkbox"/> Compare languages, traditions and holidays of various cultures in the community. 	<ul style="list-style-type: none"> <input type="checkbox"/> Understand how various artifacts and resources provide information about the past. <input type="checkbox"/> Compare various interpretations of the same time period. <input type="checkbox"/> Interpret symbols, physical and human features, legends and cardinal directions on a map. <input type="checkbox"/> Explain how people interact with and affect the environment. <input type="checkbox"/> Understand basic economic concepts including needs and wants, producers and consumers, supply and demand, trade, and personal finances. <input type="checkbox"/> Understand the purpose of government and the responsibilities of citizens. <input type="checkbox"/> Explain how various cultures influence the community (through stories, music, art, food, etc.). 	<ul style="list-style-type: none"> <input type="checkbox"/> Understand the important role of people in shaping history and explore changes in communities and regions over time. <input type="checkbox"/> Study different historical narratives in order to understand why people can describe the same event differently. <input type="checkbox"/> Study various patterns of community living in order to understand that people are influenced by their geographic location, their use of earth's materials, and the physical environment. <input type="checkbox"/> Explain how the location of a region impacts supply and demand. <input type="checkbox"/> Explain why people become entrepreneurs. <input type="checkbox"/> Explain the structure and development of local government. <input type="checkbox"/> Understand the importance of being a citizen and explain how citizens contribute to their community. <input type="checkbox"/> Compare languages, foods, art, and traditions of groups living in local and regional communities. 	<ul style="list-style-type: none"> <input type="checkbox"/> Analyze key historical events in North Carolina from Pre-Colonial through Reconstruction. <input type="checkbox"/> Summarize the change in culture, everyday life, and status of indigenous American Indian groups in North Carolina before and after European exploration. <input type="checkbox"/> Explain how certain structures, symbols, and place names are significant to North Carolina. <input type="checkbox"/> Understand the concept of movement and its impact on people, goods, and ideas in North Carolina. <input type="checkbox"/> Understand the relationship between scarcity, choice, and opportunity costs when making financial decisions. <input type="checkbox"/> Explore North Carolina's economy—examine how natural resources have influenced its economic development. <input type="checkbox"/> Analyze North Carolina's Constitution. <input type="checkbox"/> Understand the development, structure, and function of North Carolina's government. <input type="checkbox"/> Understand the impact of various cultural groups on North Carolina. 	<ul style="list-style-type: none"> <input type="checkbox"/> Analyze key historical events and people (e.g., "Founding Fathers") in the United States. <input type="checkbox"/> Understand the push/pull factors of migration and immigration and their influence on culture in the United States. <input type="checkbox"/> Analyze human-environment interactions and their effects on the physical environment of the United States. <input type="checkbox"/> Understand economic growth in the United States and the concepts of production, specialization, and division of labor. <input type="checkbox"/> Learn how to make responsible financial choices in spending and saving. <input type="checkbox"/> Analyze historical documents and speeches that helped shape the foundation of the United States. <input type="checkbox"/> Understand the development, structure, and function of government in the United States. <input type="checkbox"/> Understand what it is to be a citizen of a democratic nation.